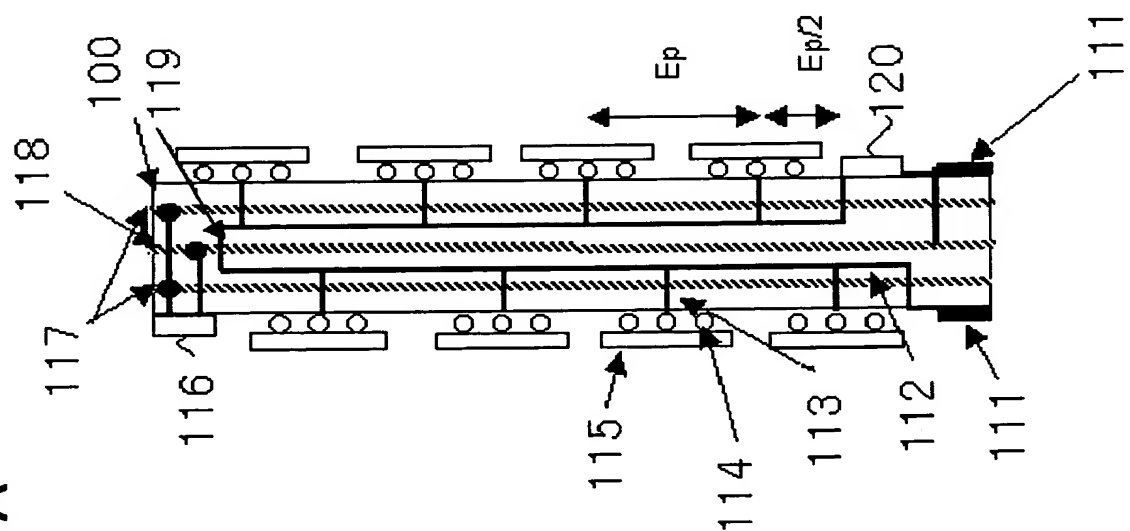


**FIG. 1A**



**FIG. 1B**

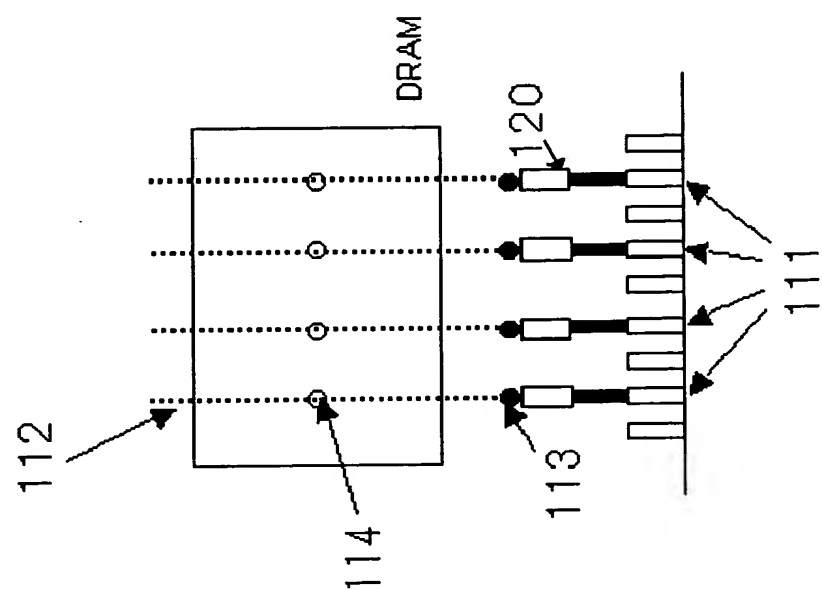




FIG. 3A

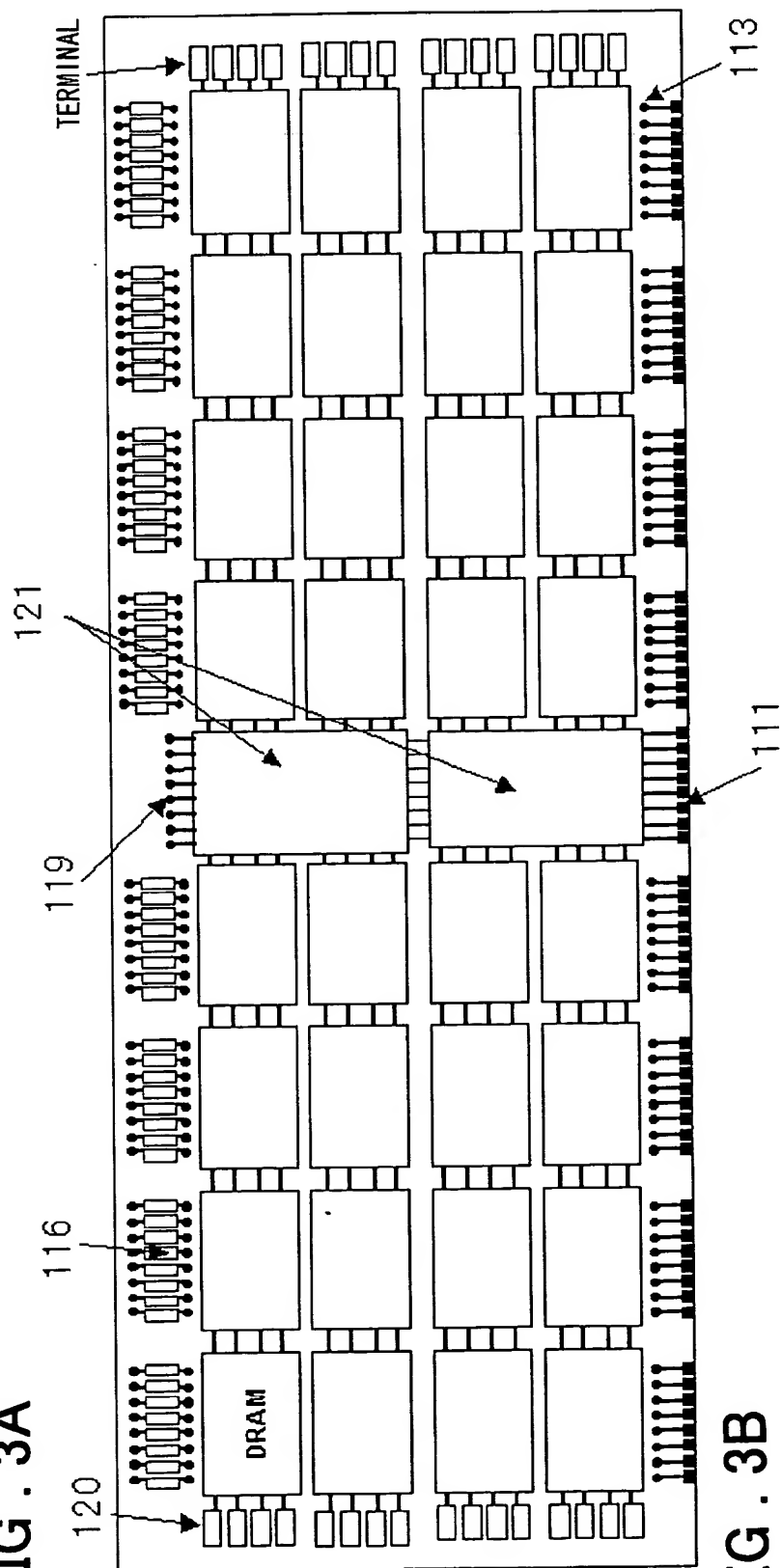


FIG. 3B

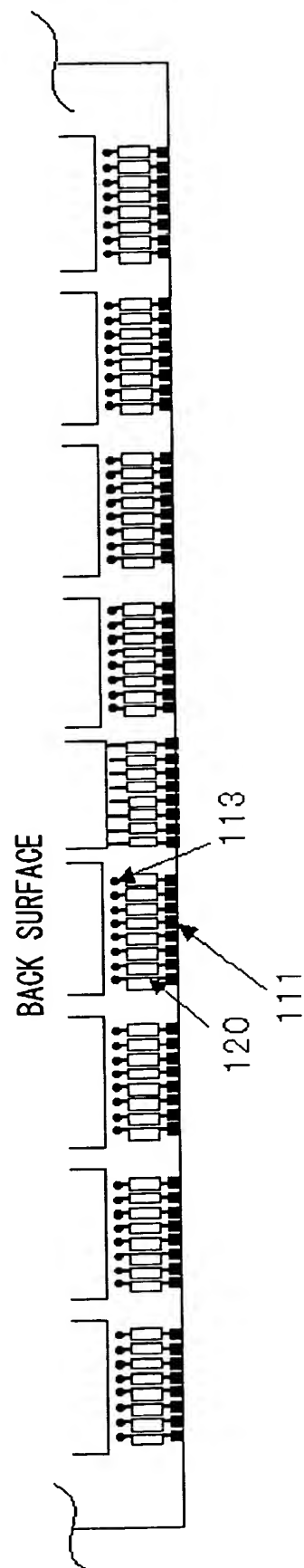


FIG . 4A DQ, DQS, CLK

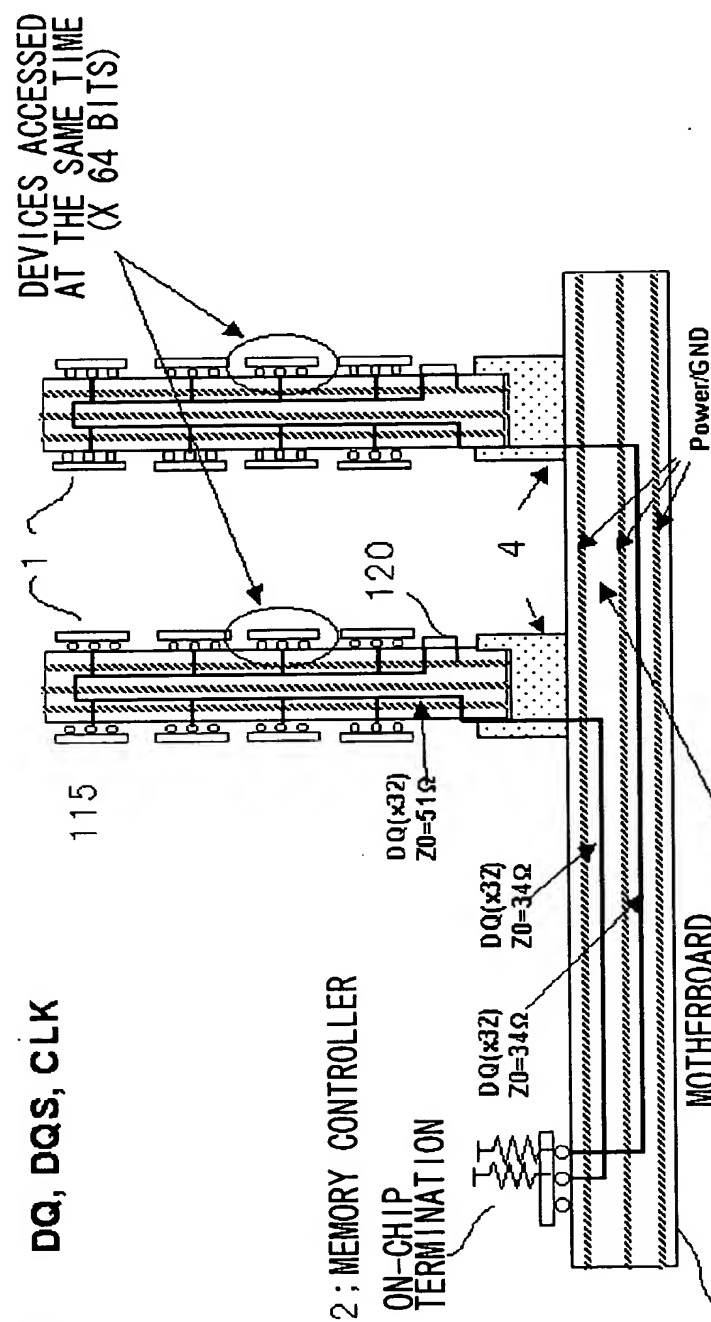


FIG . 4B

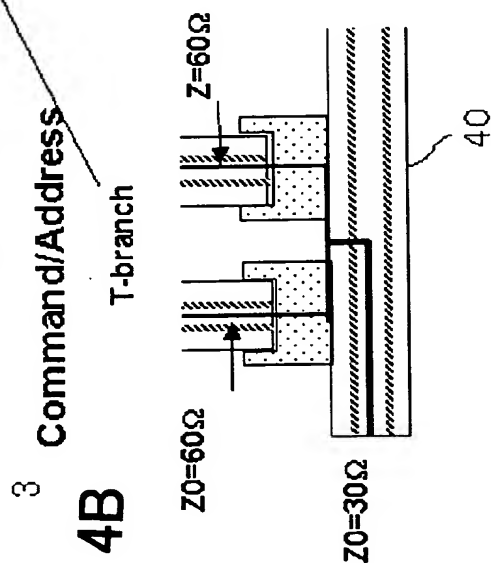


FIG. 5

DQ@WRITE: LATCH BY CLK (CENTER ALIGNED)  
 DQ@READ: LATCH BY DQS (CENTER ALIGNED)  
 CA@REGISTER: LATCH BY CACLK  
 CA@DRAM: LATCH BY CLK

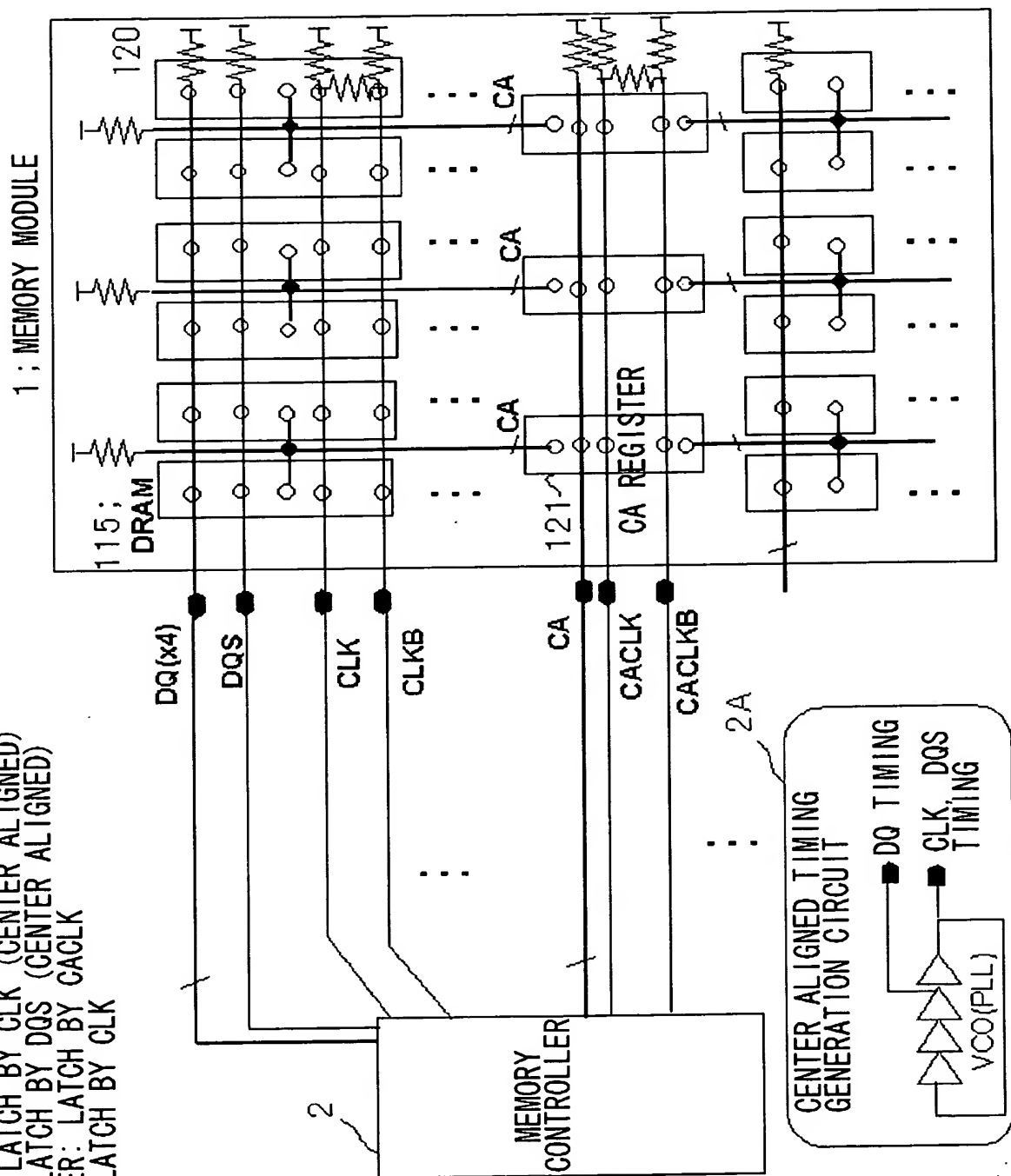


FIG . 6A

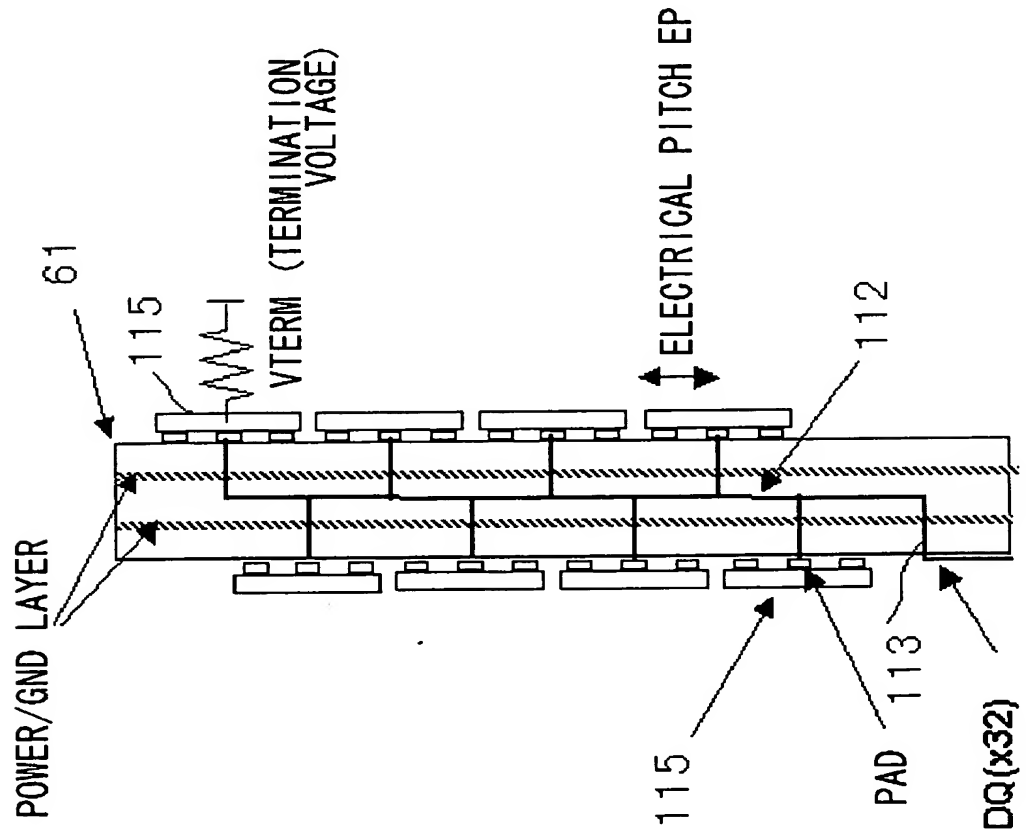
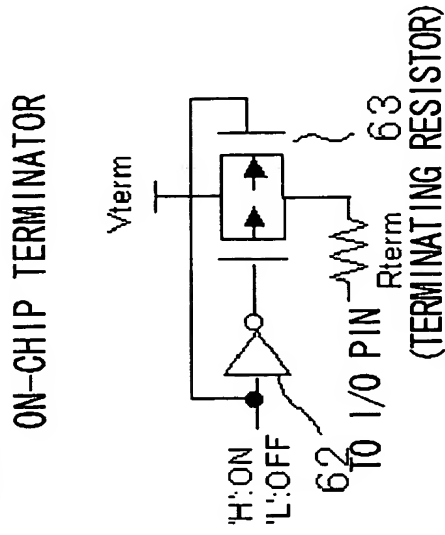


FIG . 6B



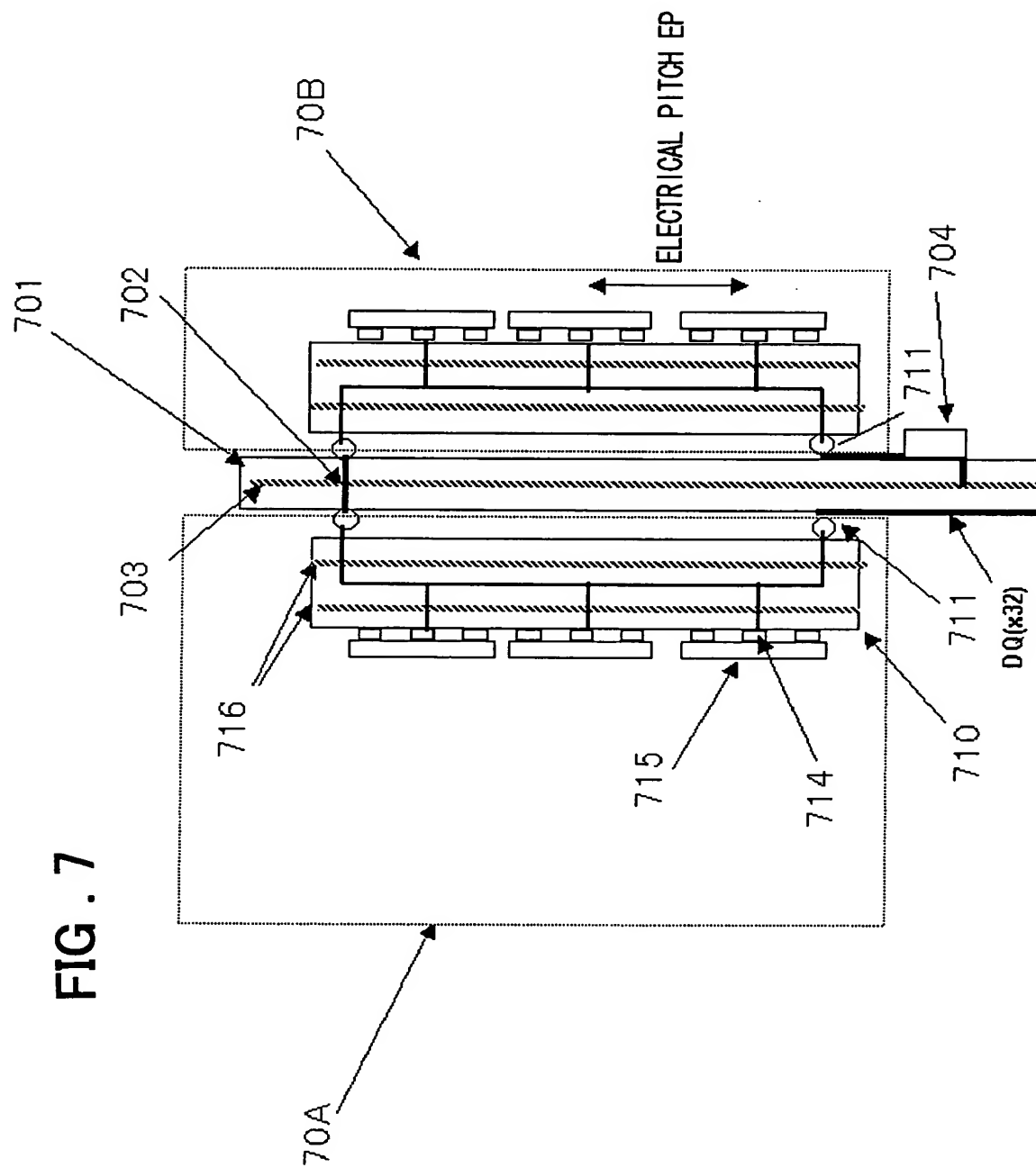


FIG . 8A

DQ, DQS, CLK

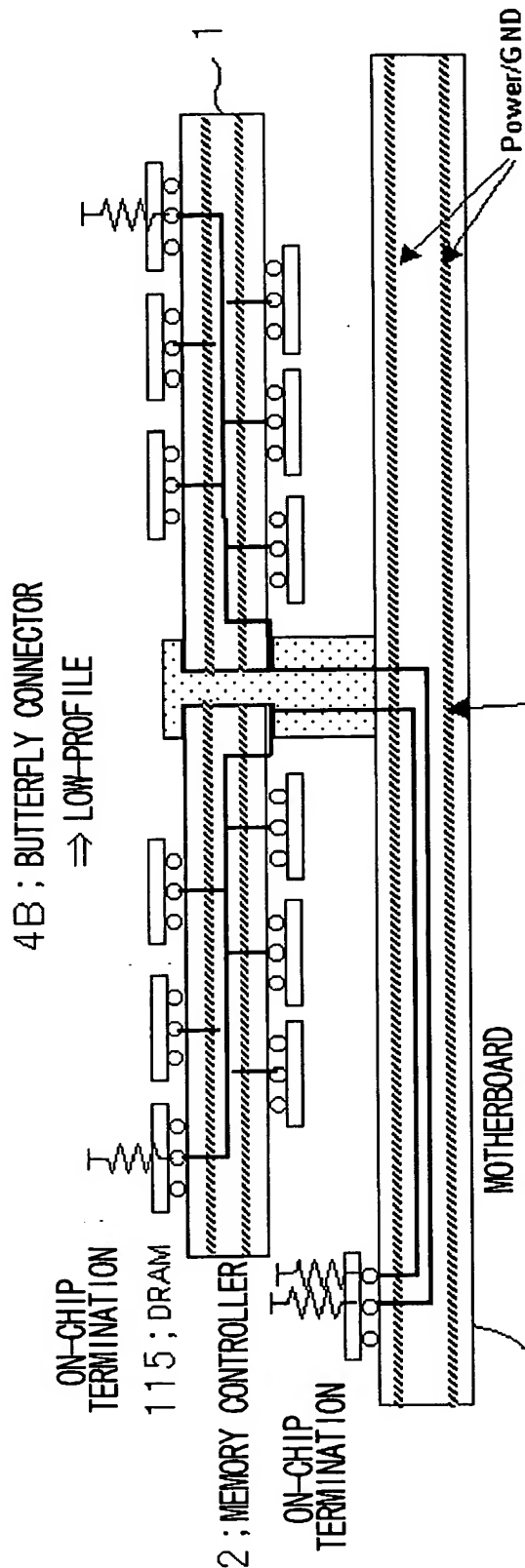


FIG . 8B Command/Address

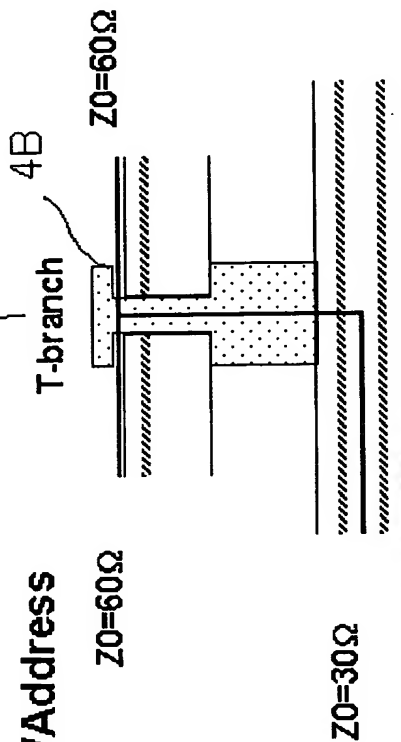




FIG . 9

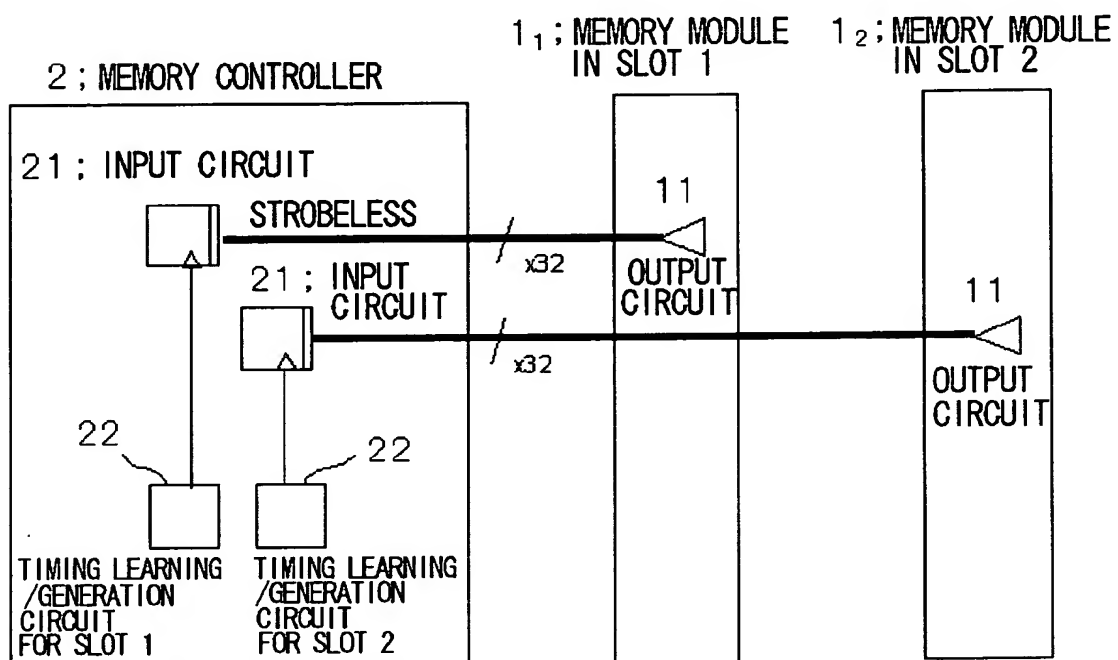


FIG . 10

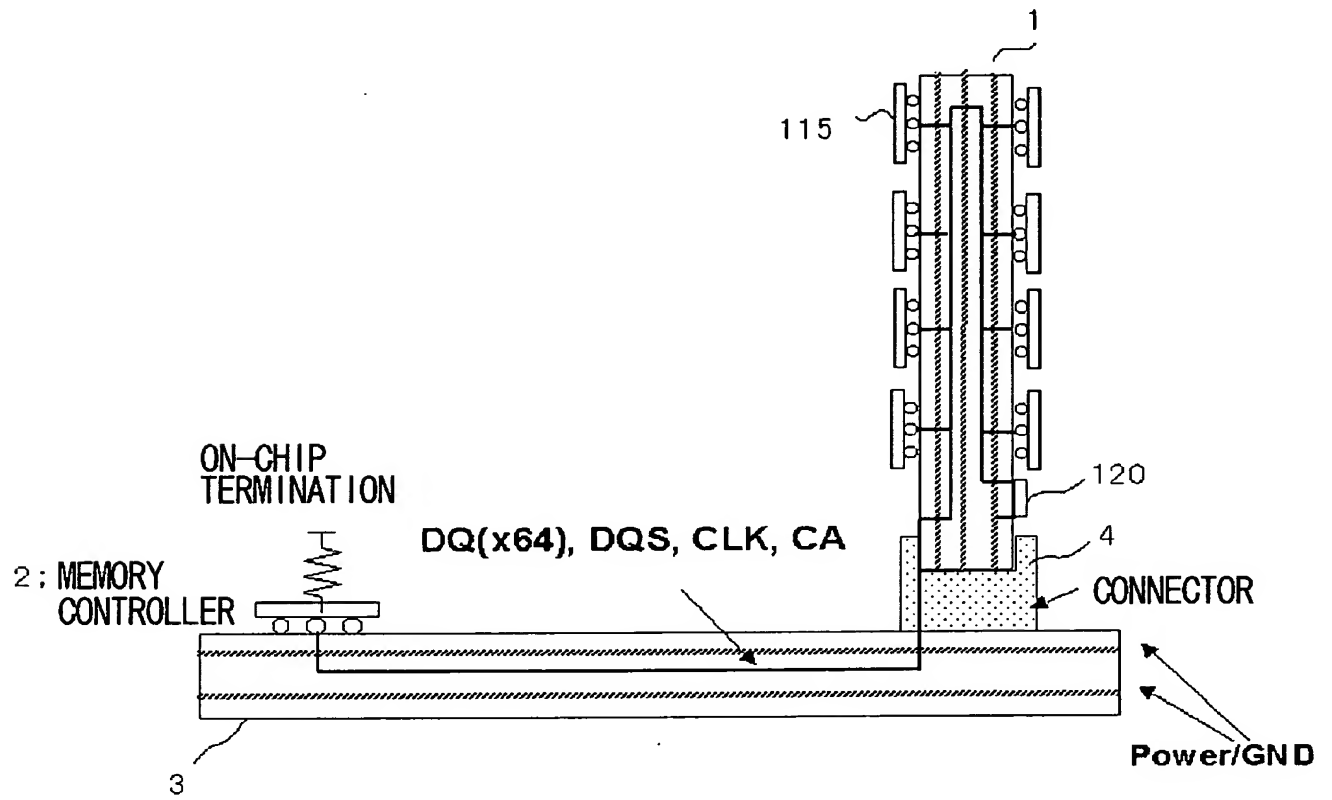


FIG . 11A

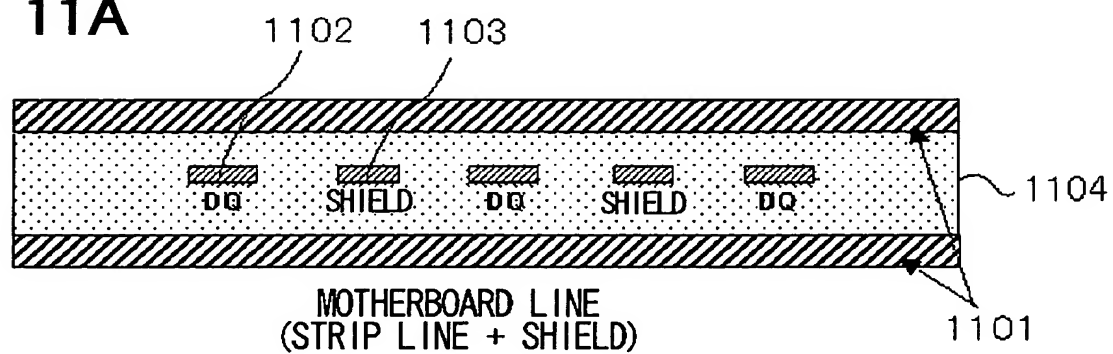


FIG . 11B

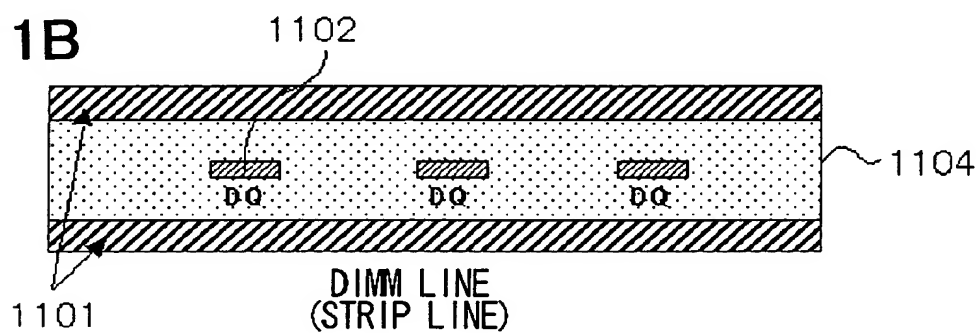


FIG. 12

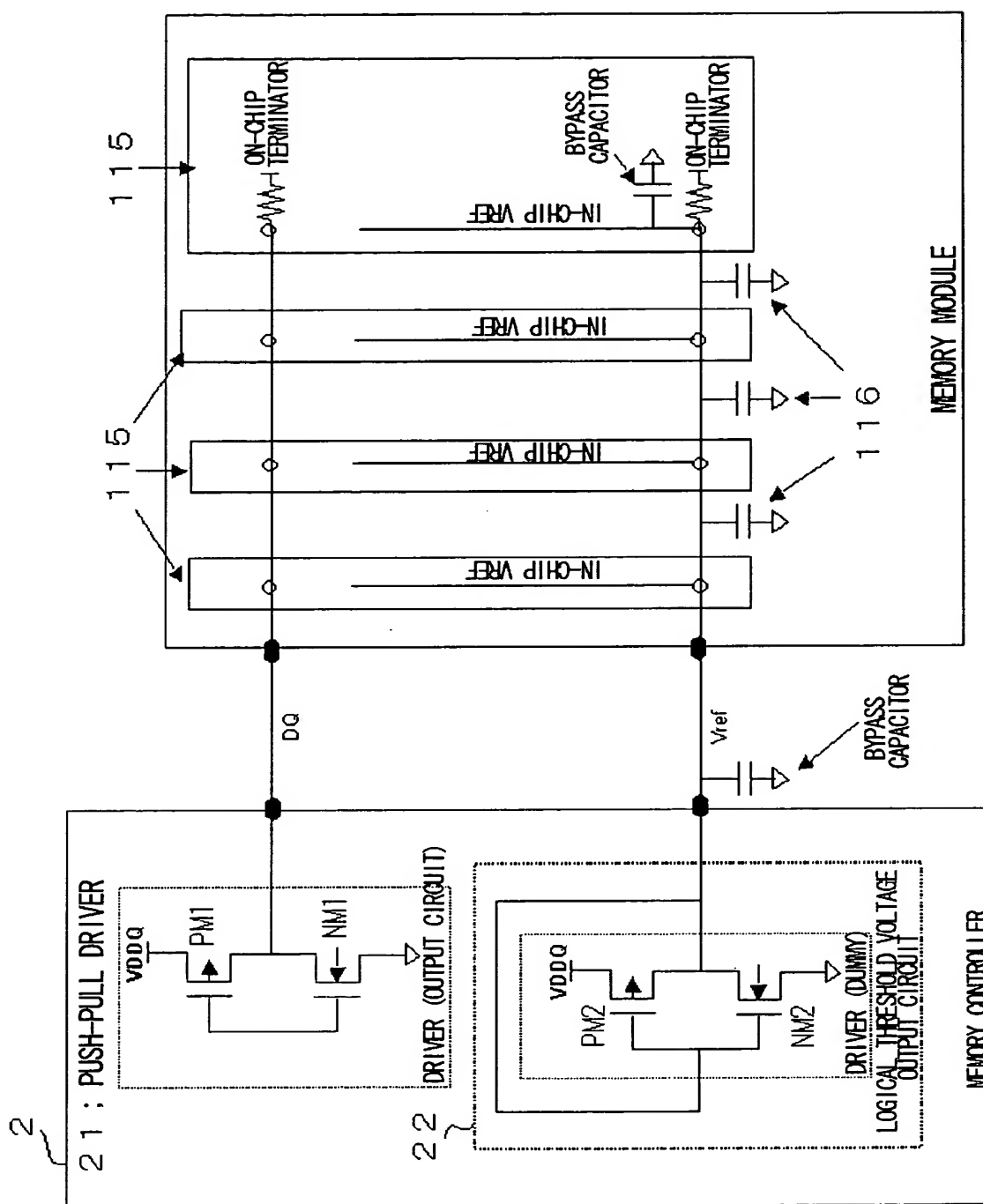


FIG. 13A

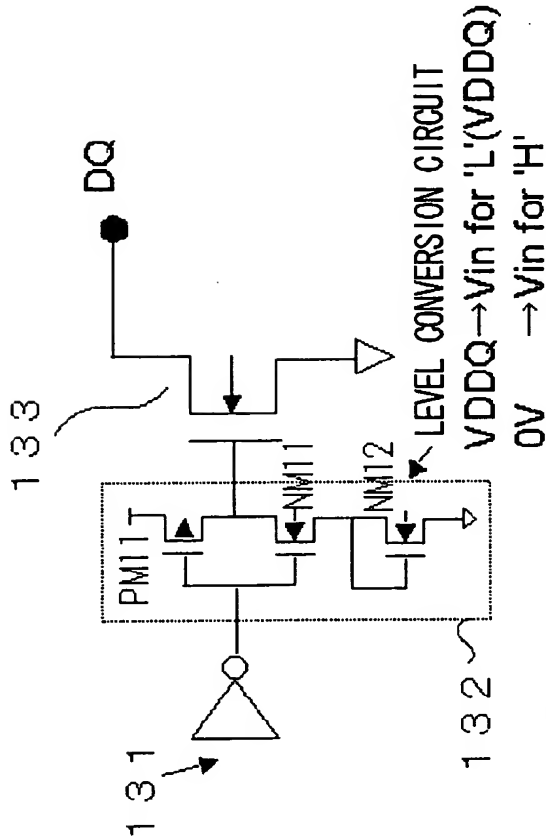


FIG. 13B

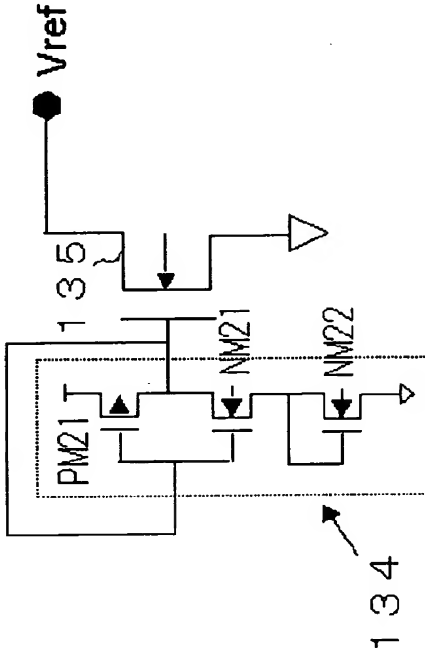


FIG. 13C

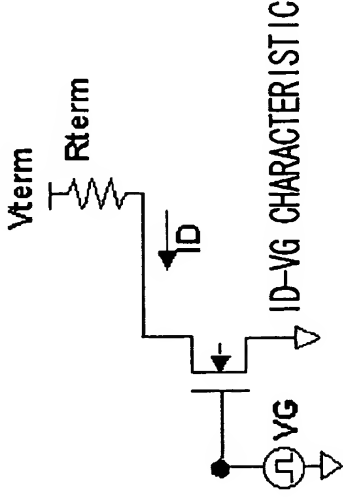
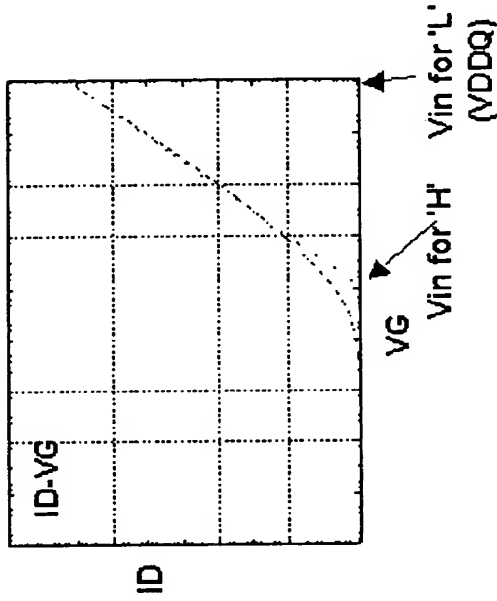


FIG. 13D



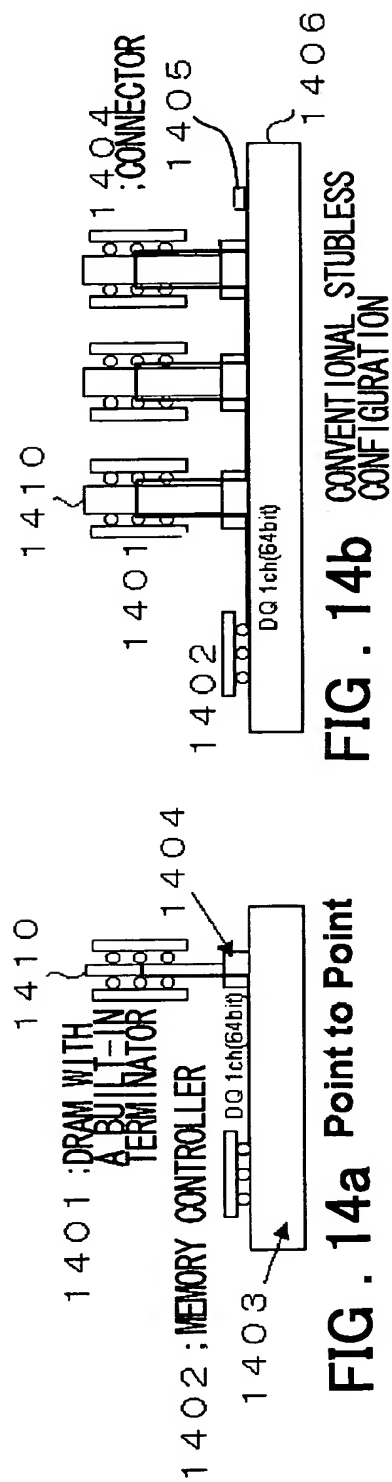


FIG. 14a Point to Point

FIG. 14b CONVENTIONAL STUBLESS CONFIGURATION

PRIOR ART

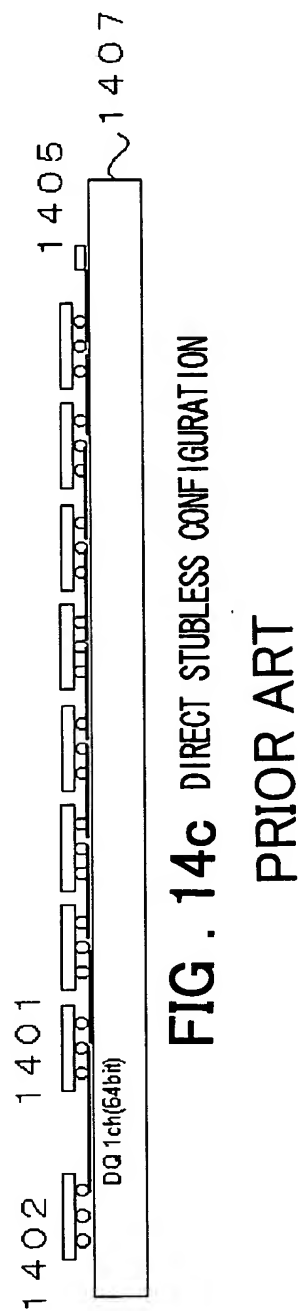


FIG. 14c DIRECT STUBLESS CONFIGURATION

PRIOR ART







FIG . 17

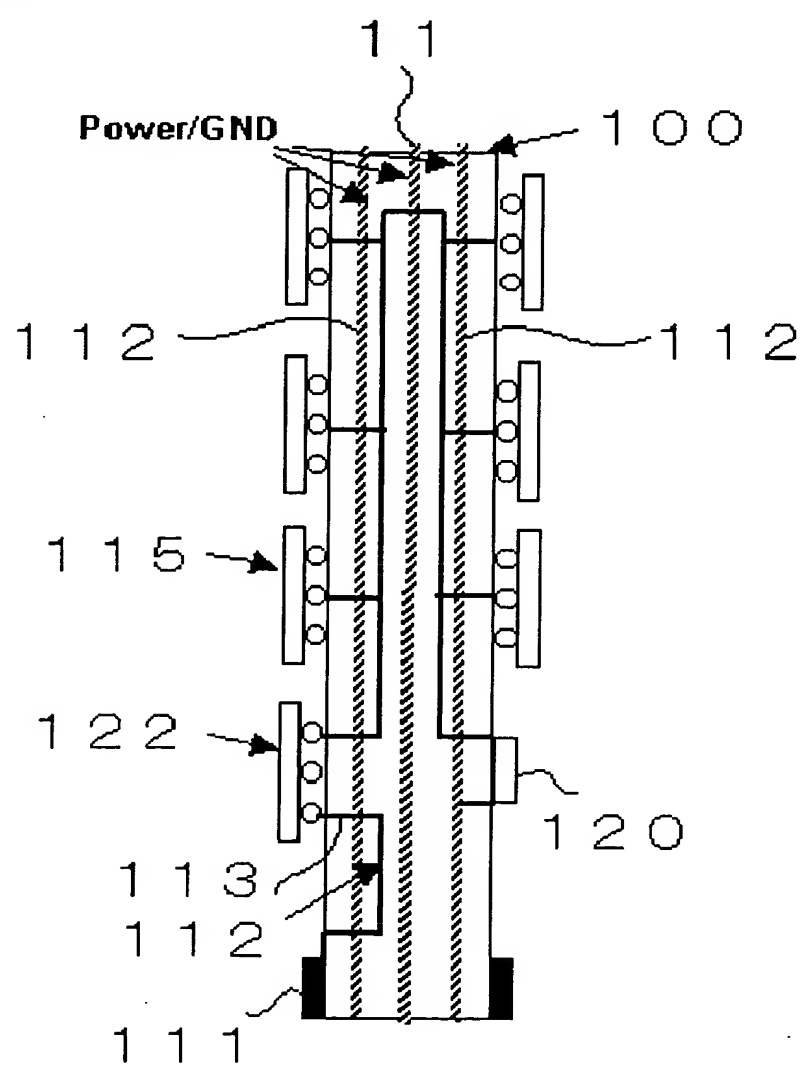




FIG . 19A

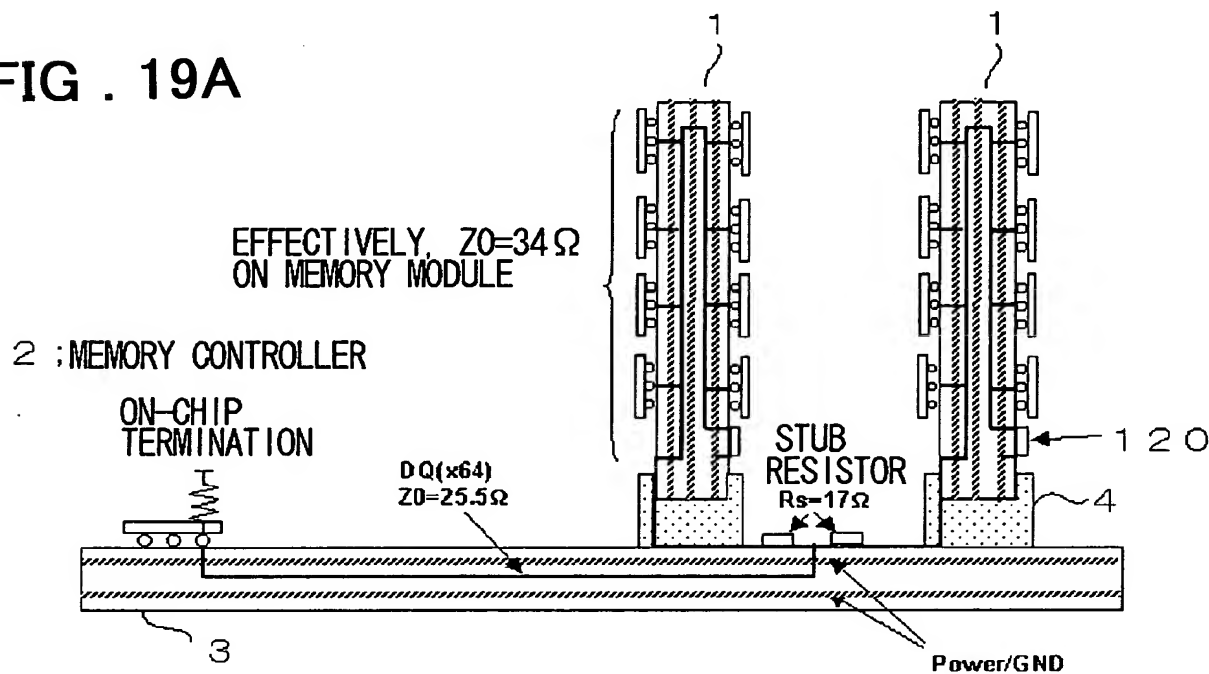


FIG . 19B

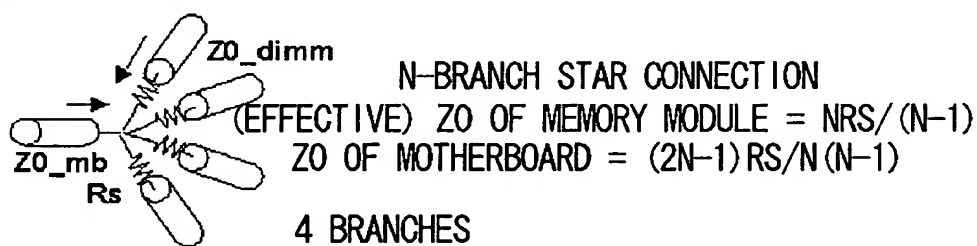


FIG. 20

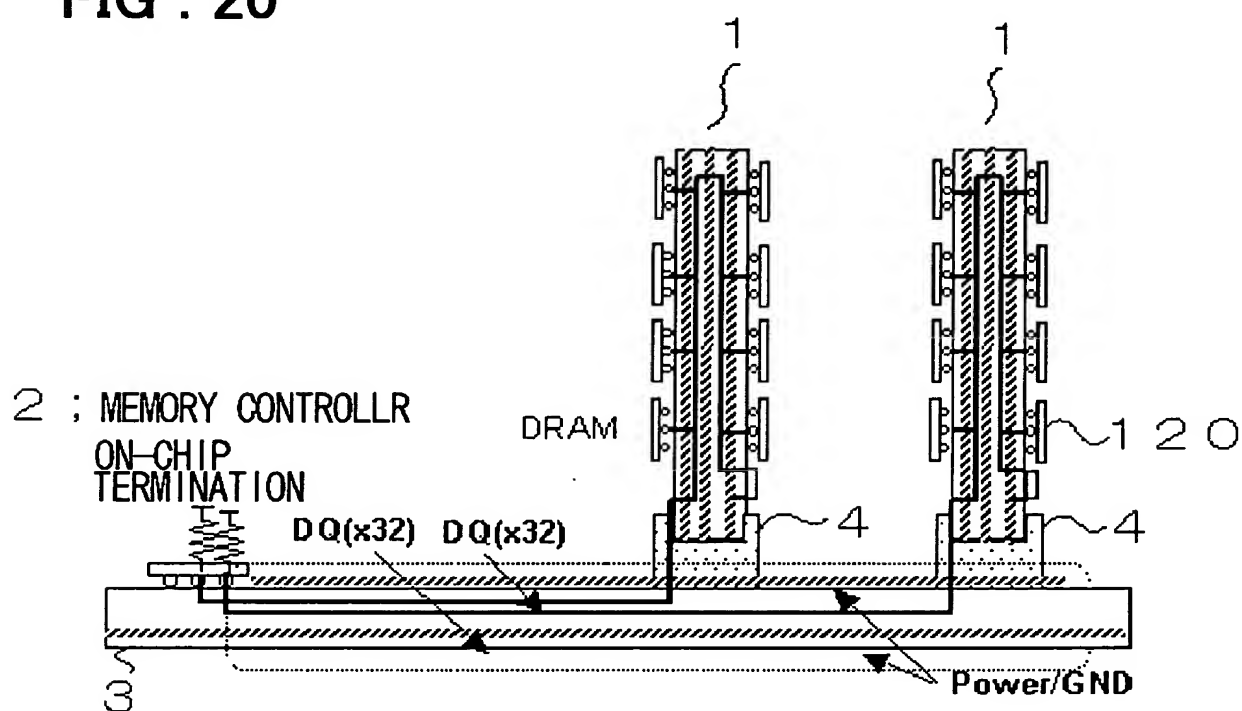


FIG . 21A

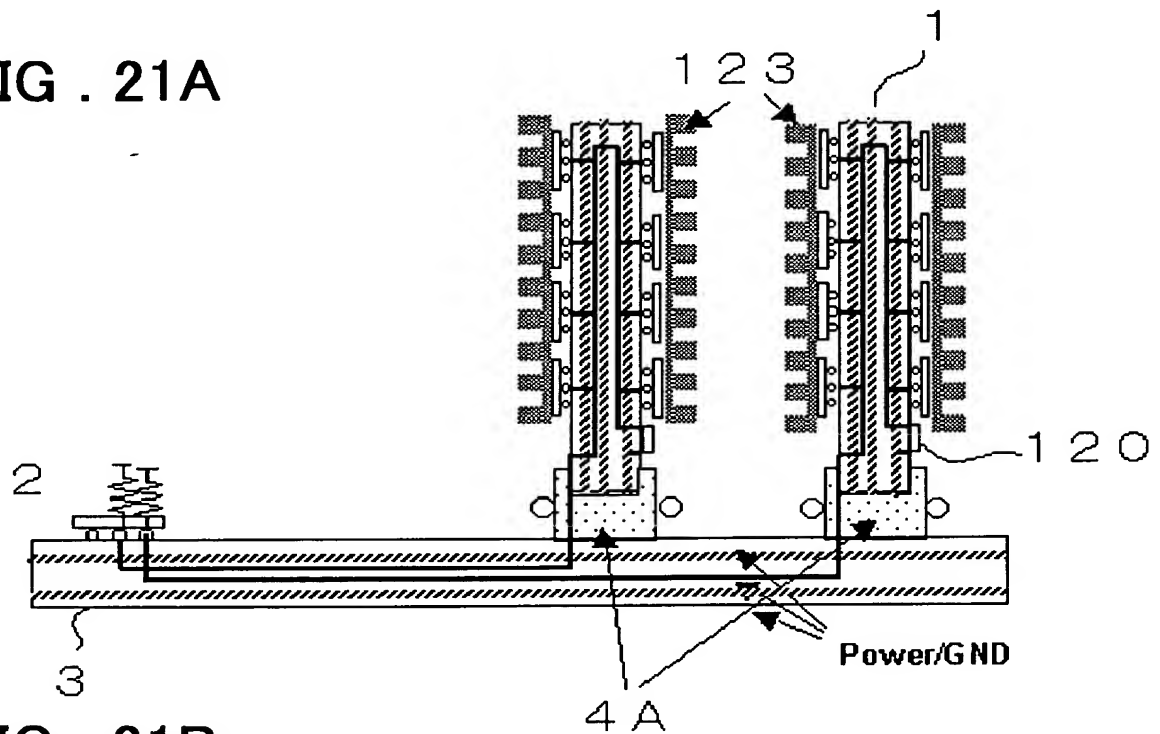


FIG . 21B

HEAT PIPE BUILT-IN CONNECTOR

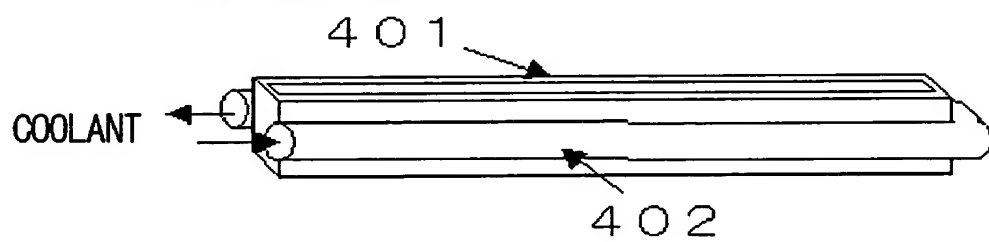


FIG . 22A

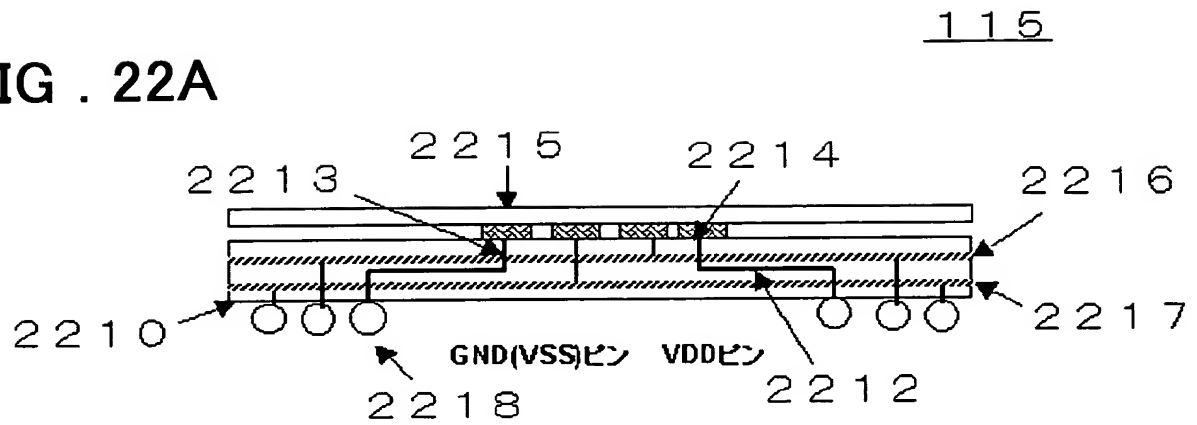


FIG . 22B

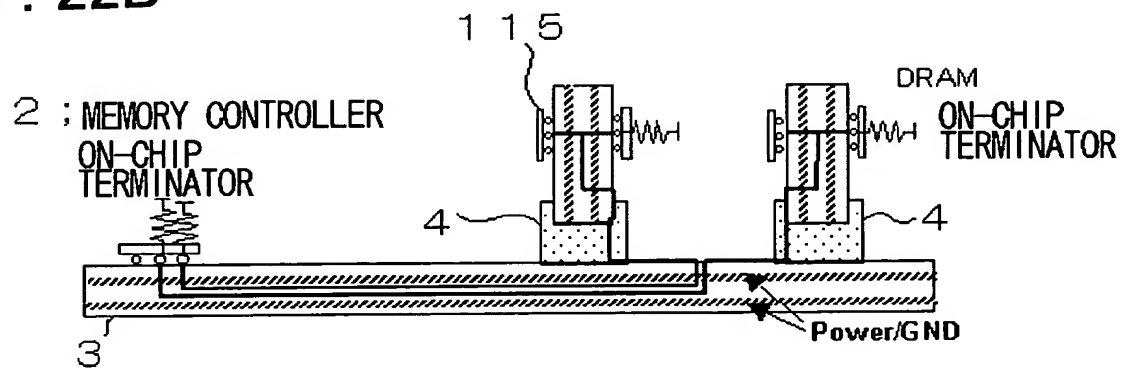


FIG. 23

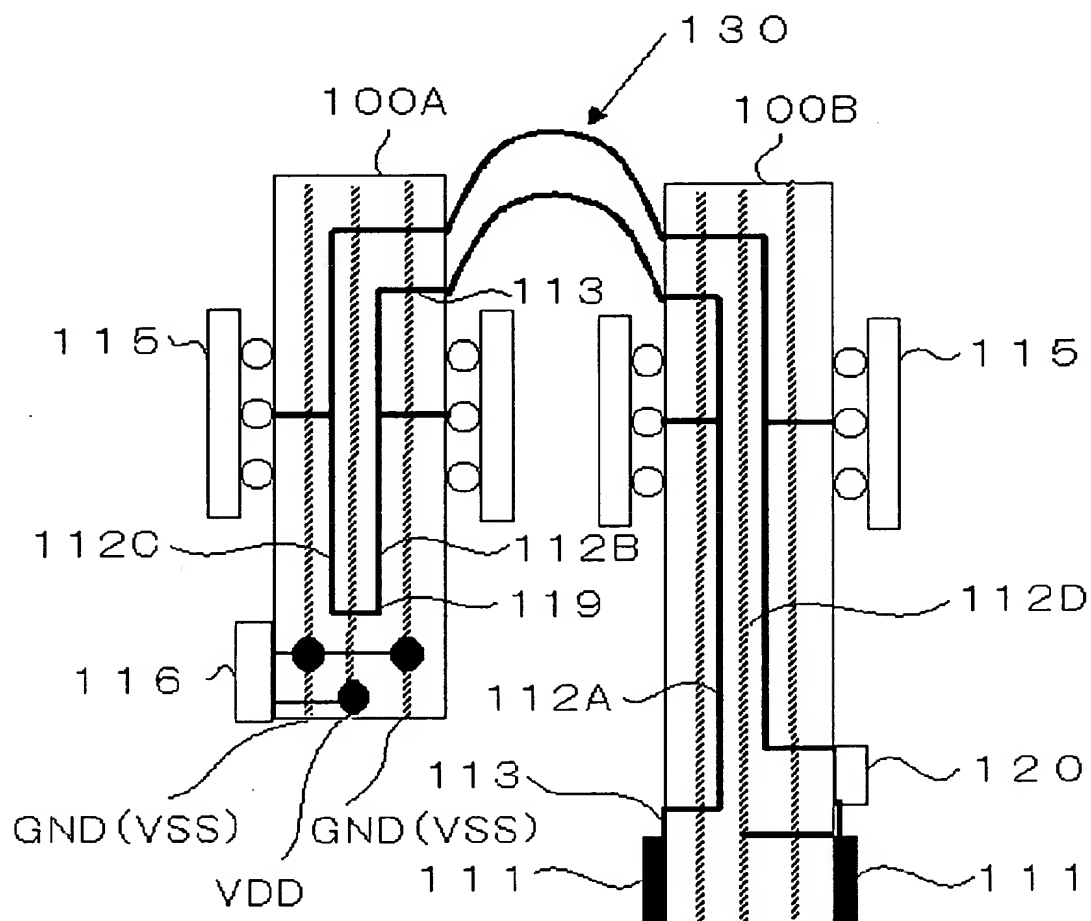


FIG . 24

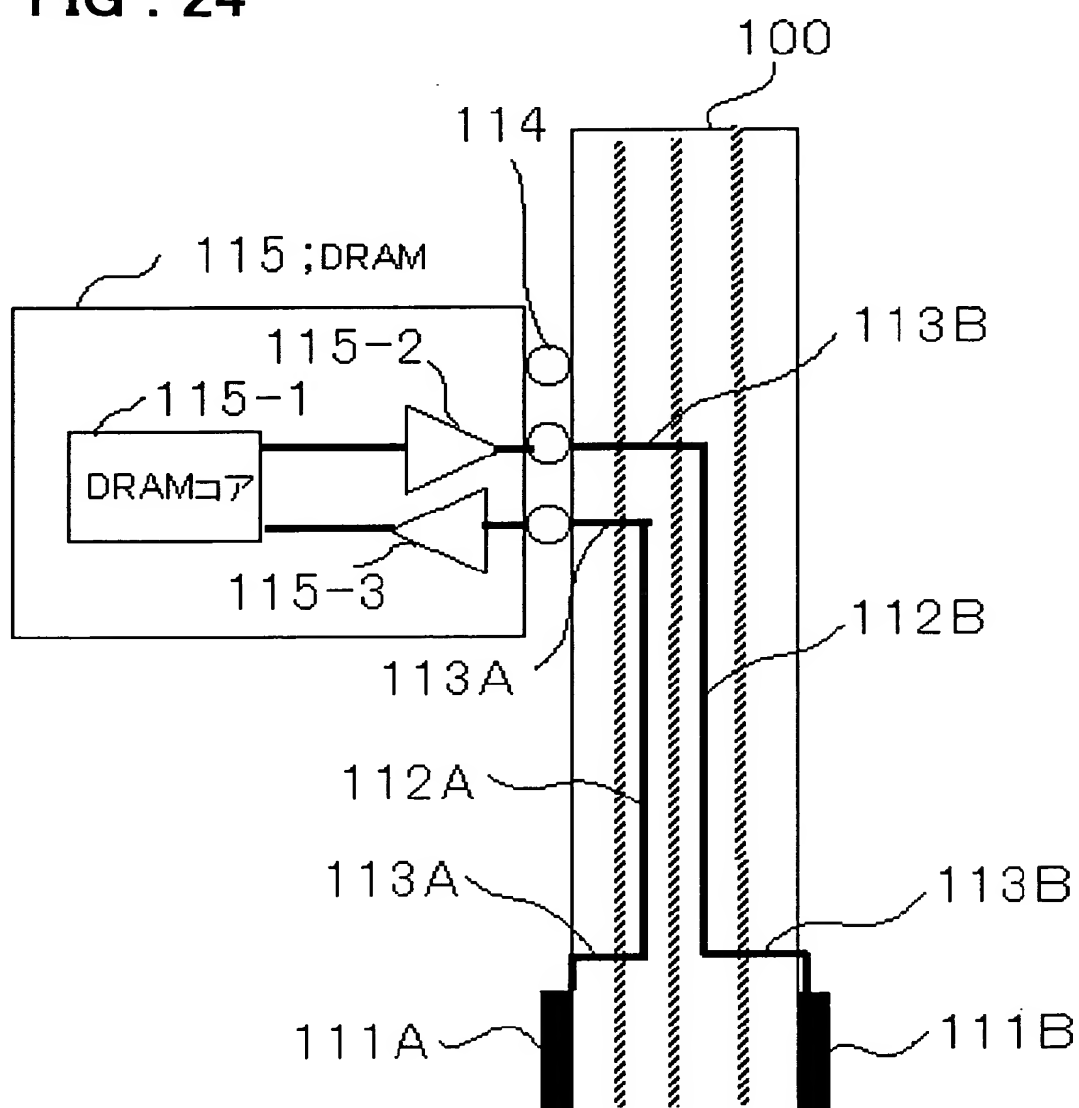




FIG . 25

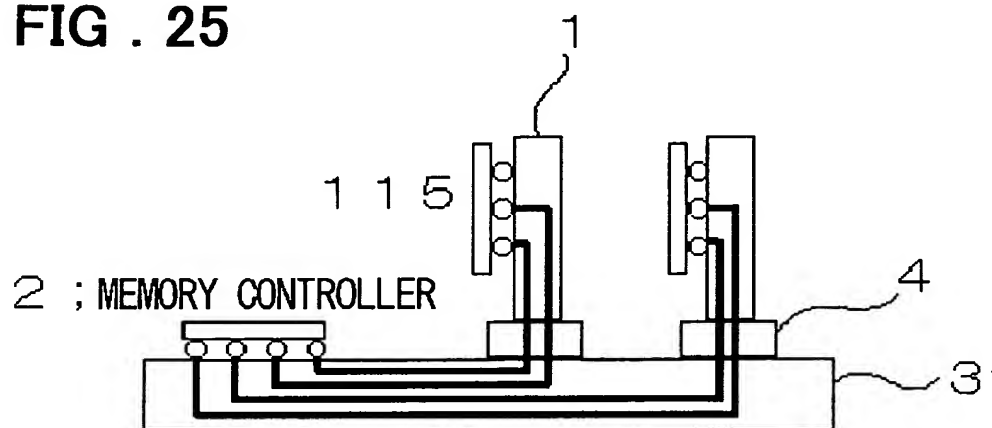


FIG . 26

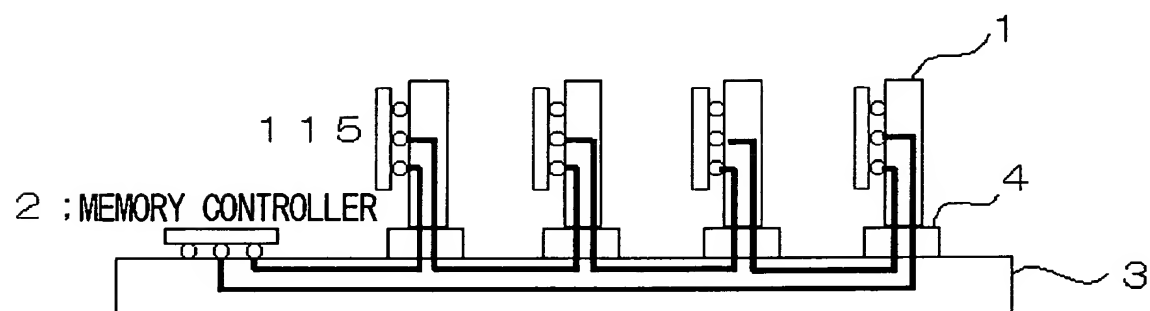


FIG . 27

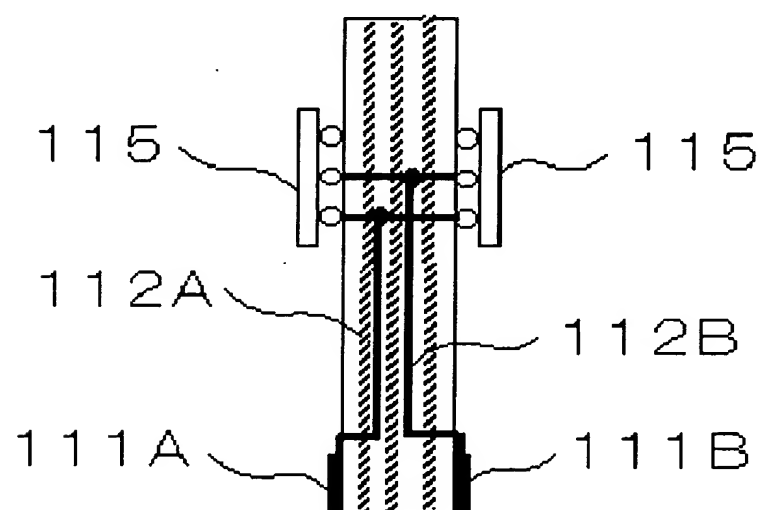


FIG . 28

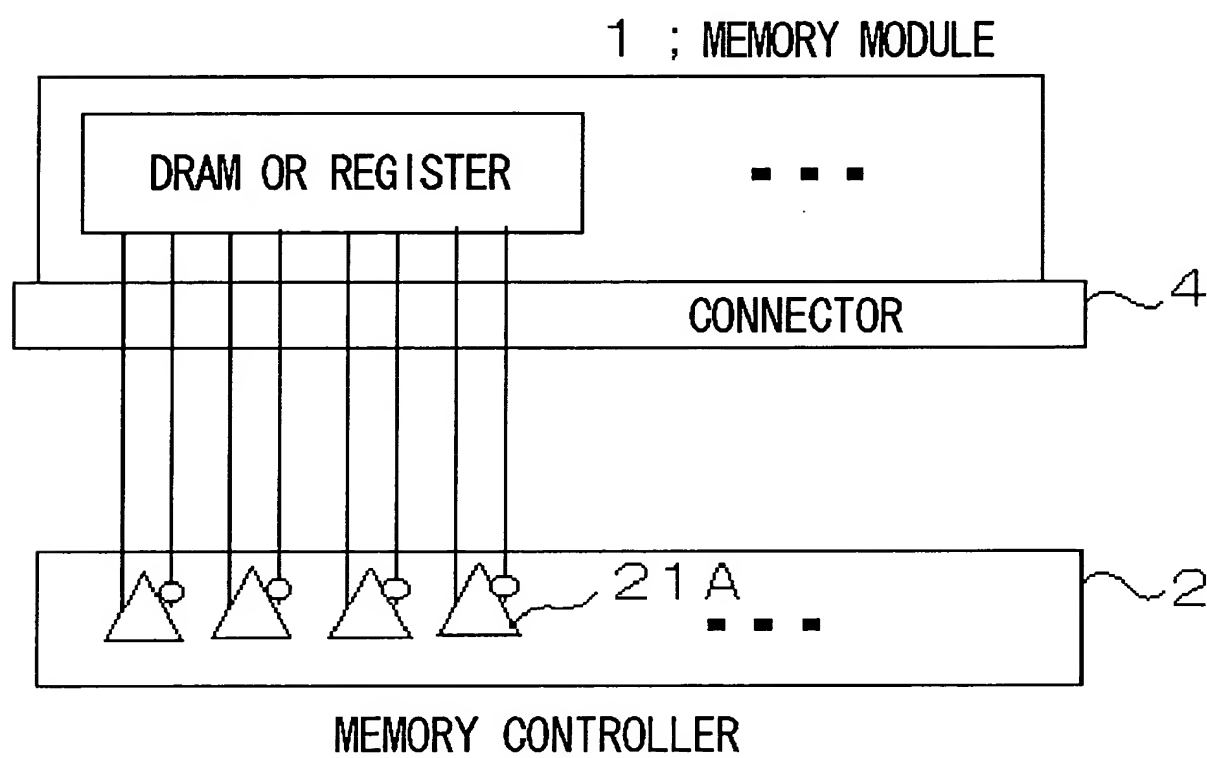


FIG . 29A

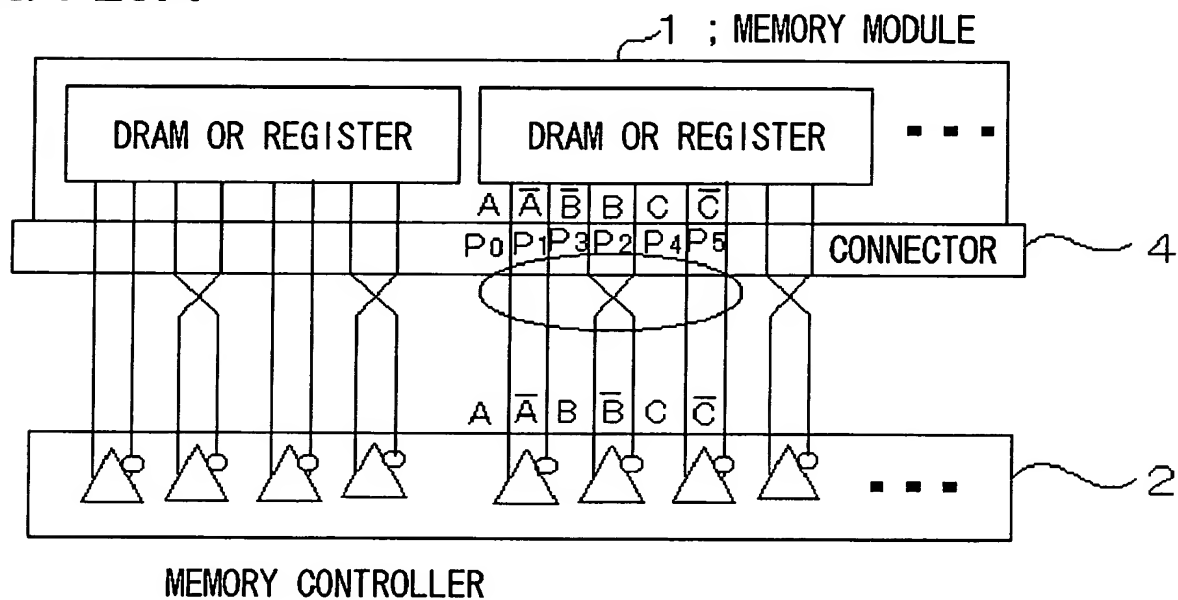


FIG . 29B

